

FIG. 1 (1 of 2)

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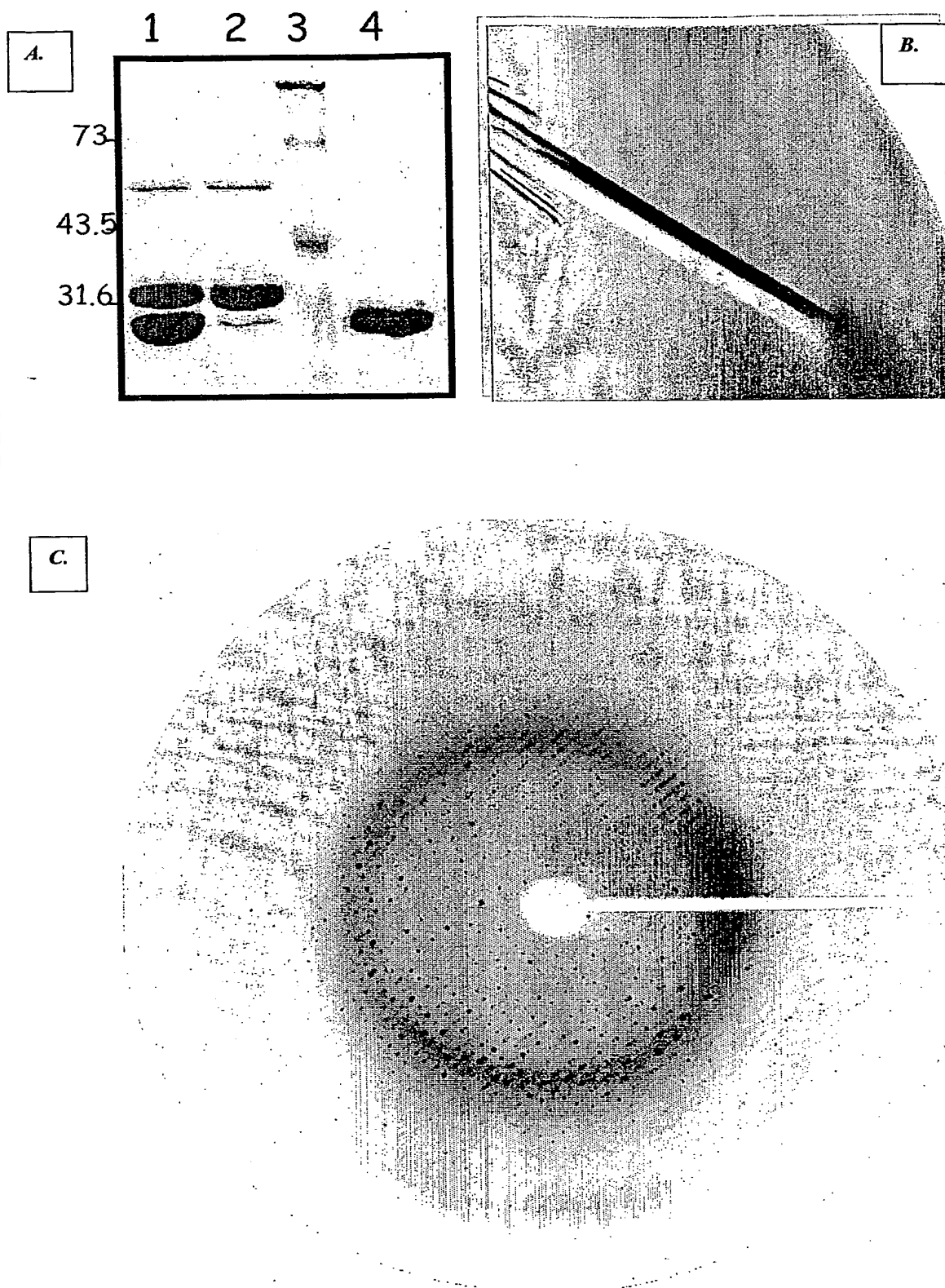


FIG. 1 (2 of 2)

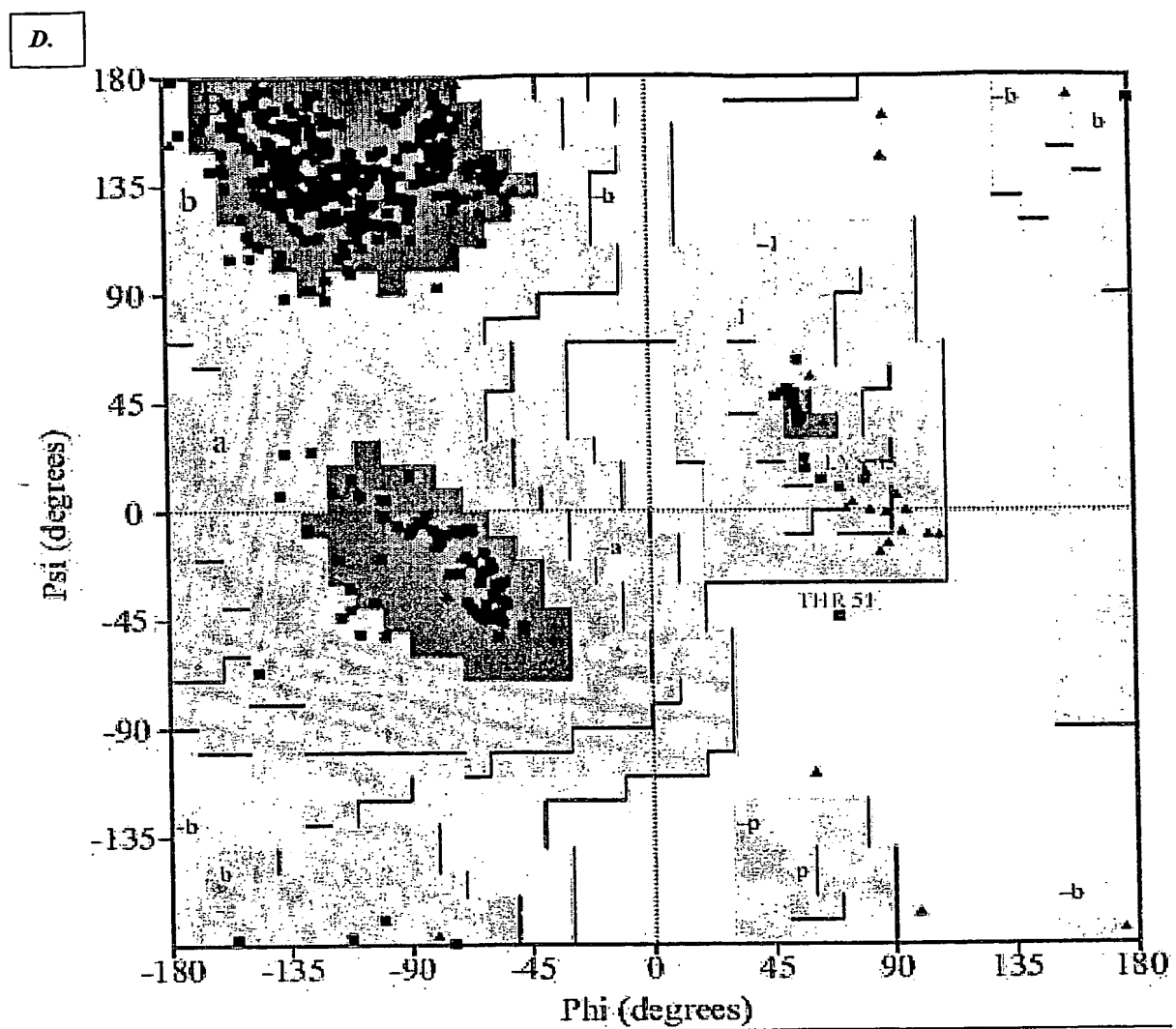


FIG. 2 (1 of 2)

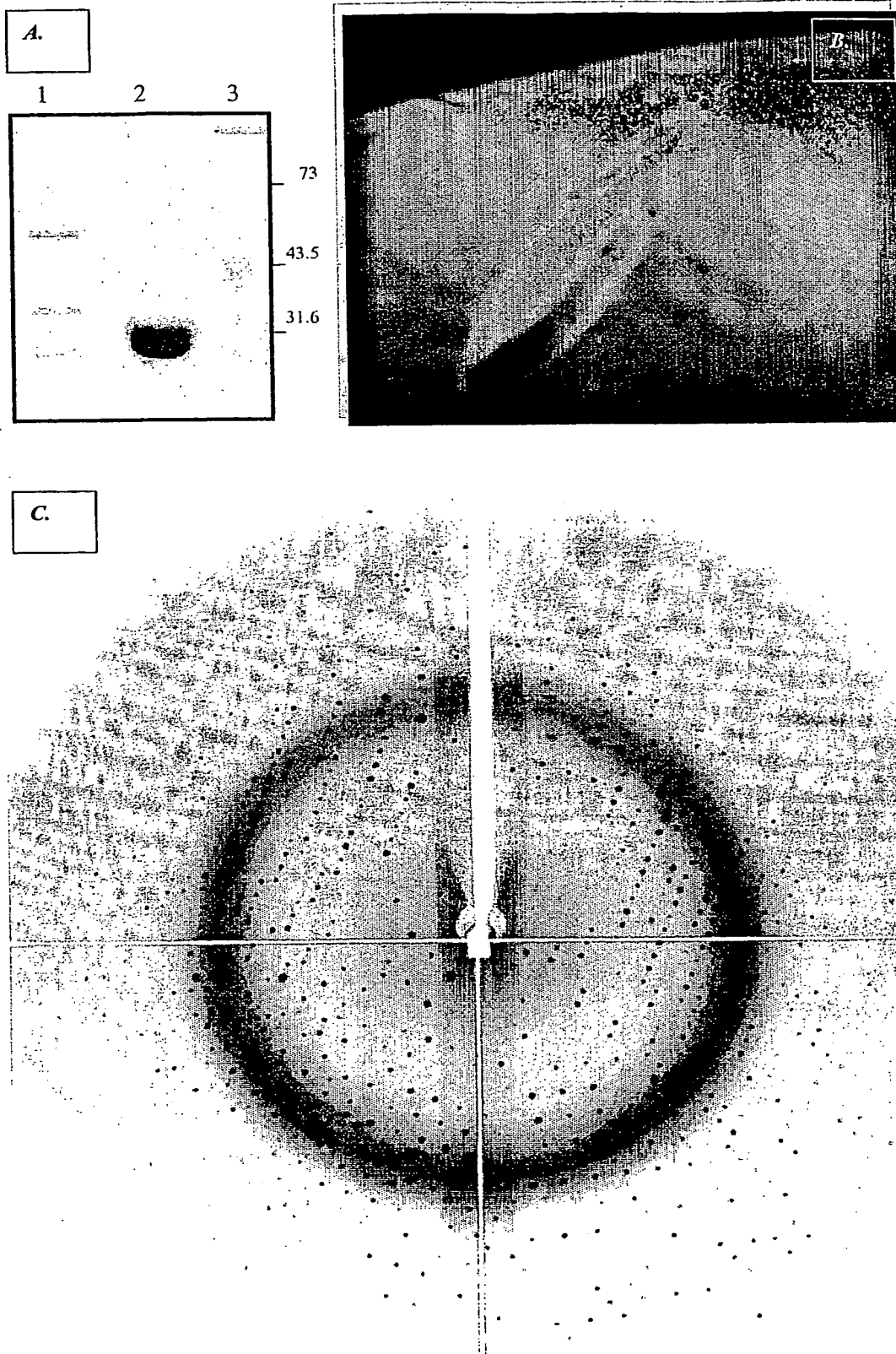


FIG. 2 (2 of 2)

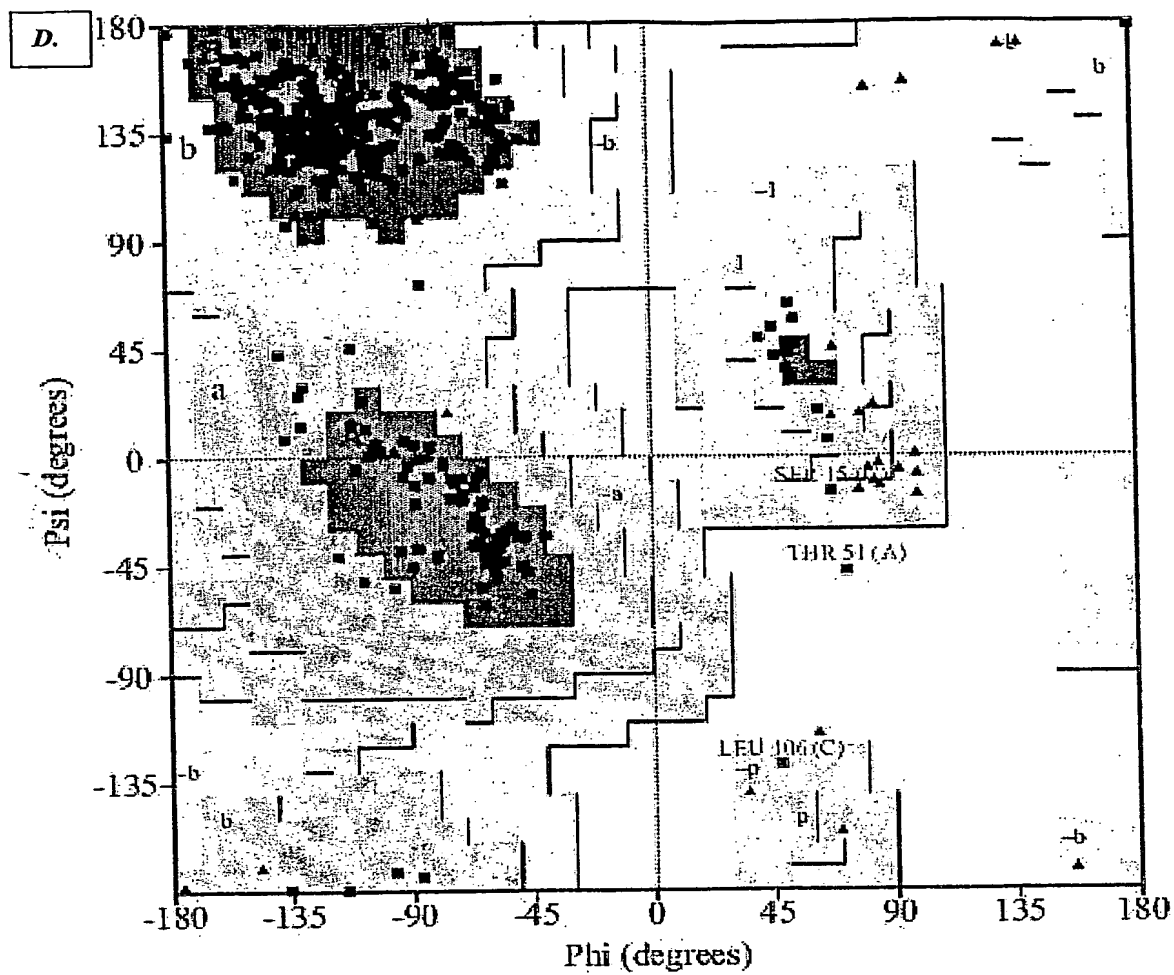
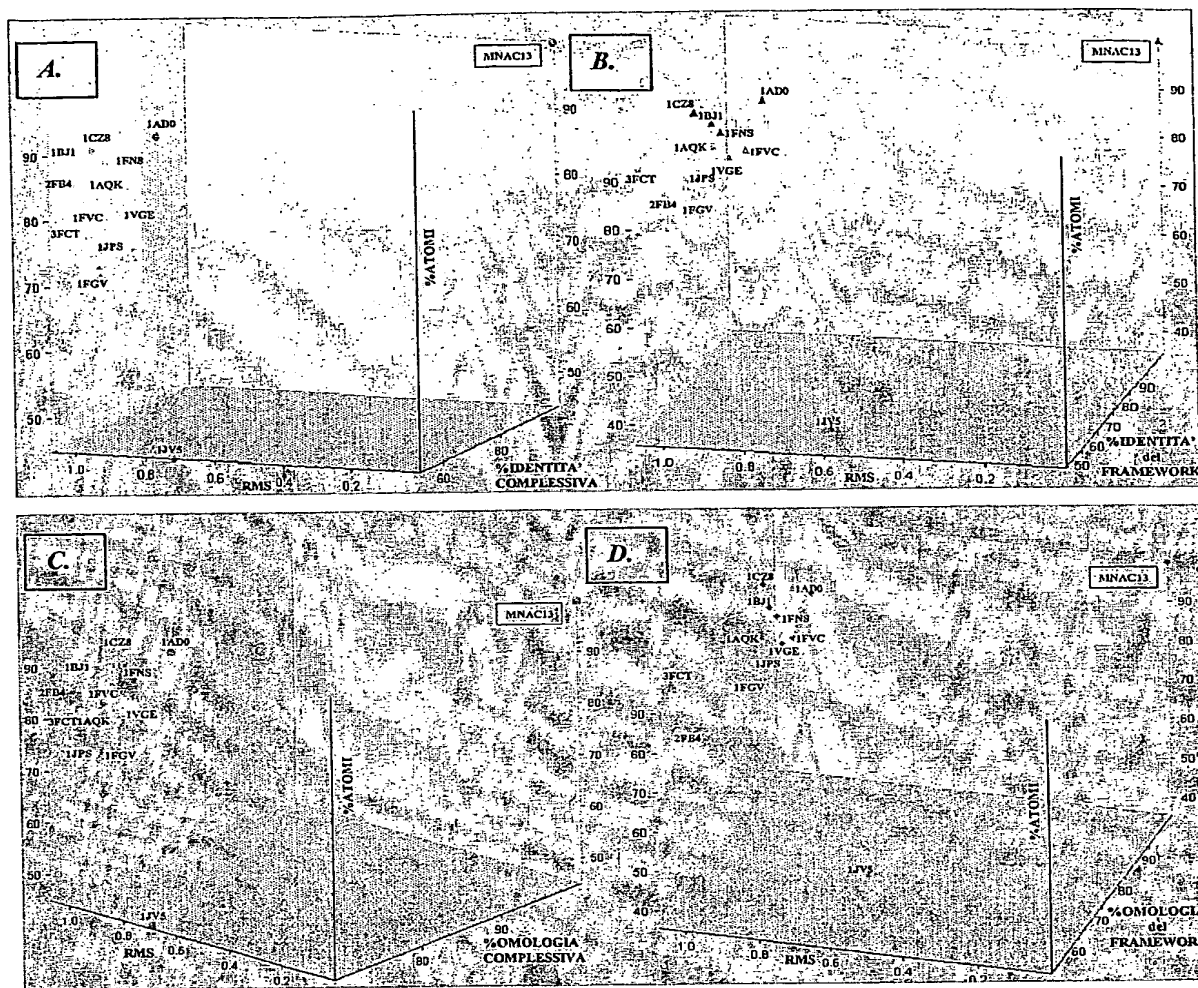
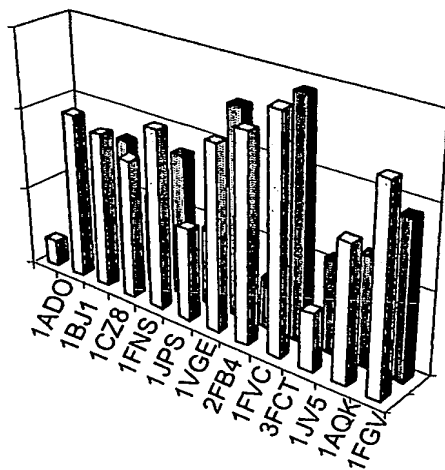


FIG. 3 (1 of 2)



E. identity with MNAC13



F. homology with MNAC13

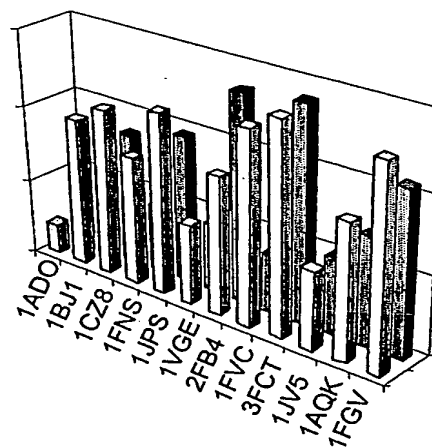
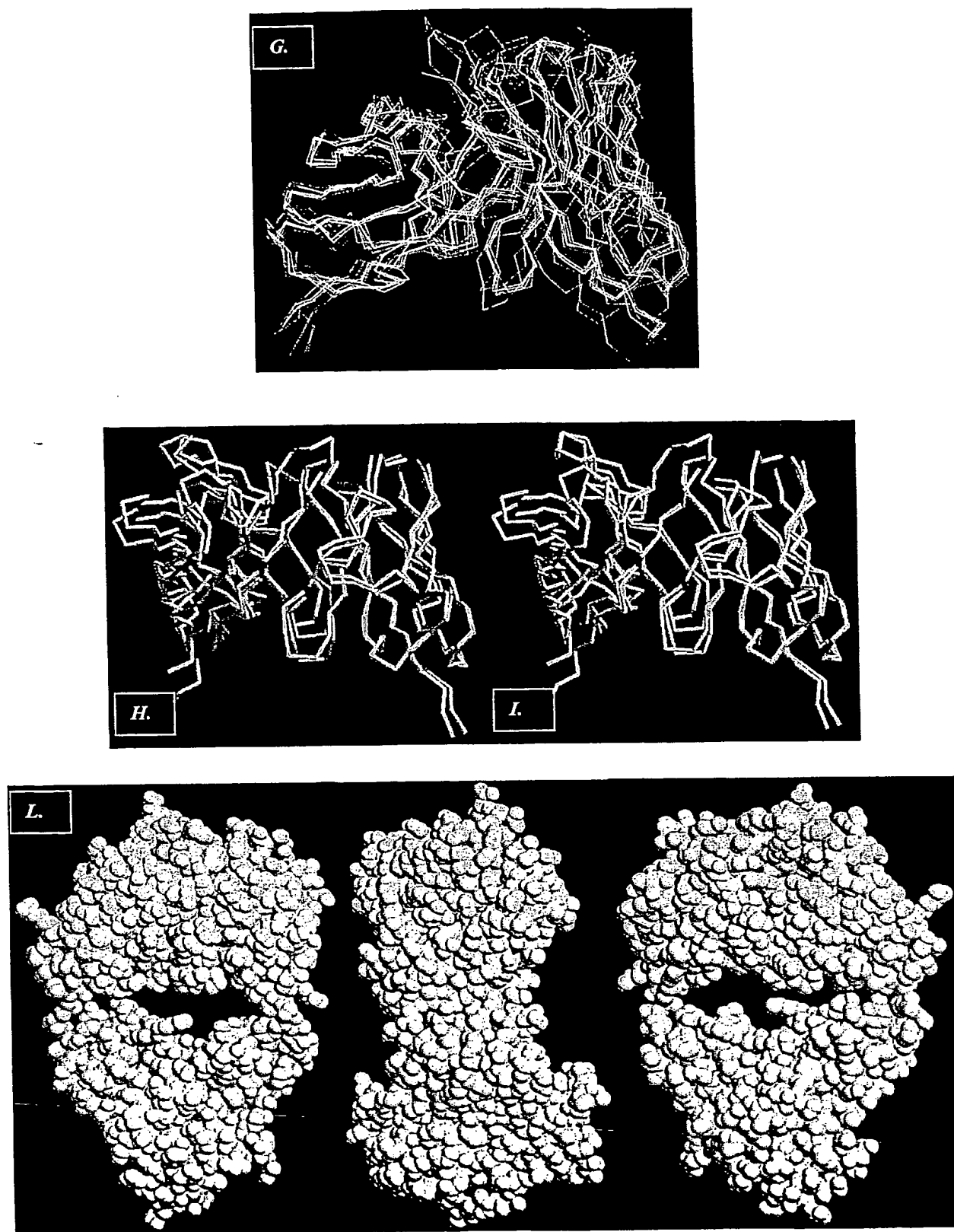
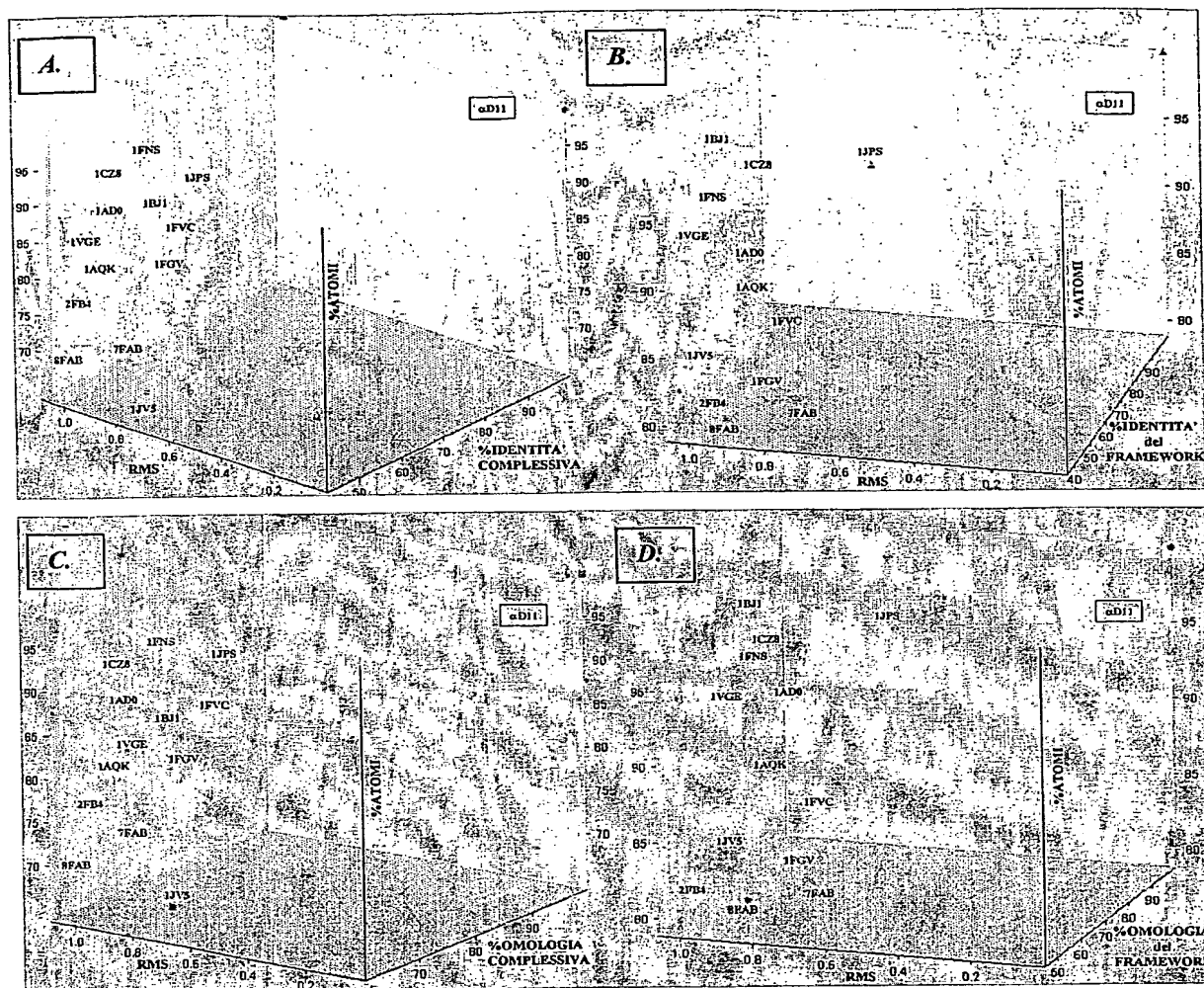


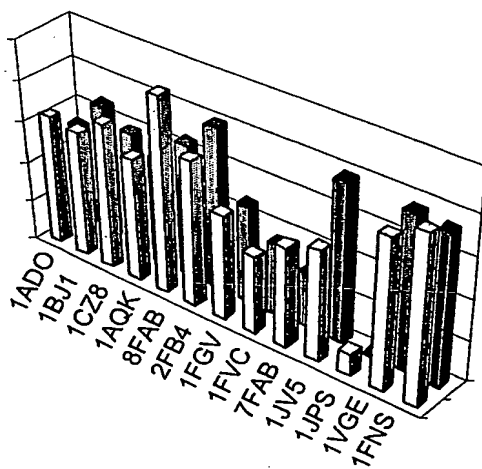
FIG. 3 (2 of 2)



**FIG. 4 (1 of 2)**



### A. identity with $\alpha D11$



### B. homology with $\alpha D11$

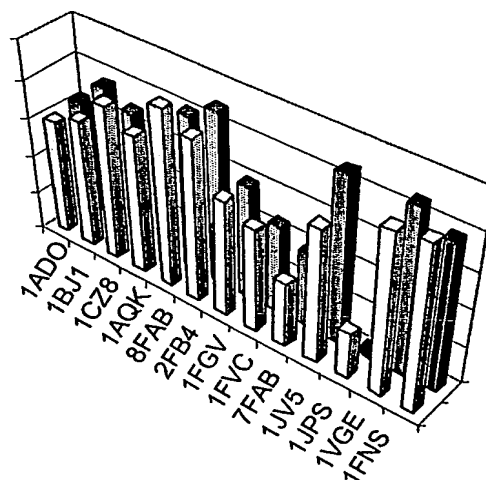


FIG. 4 (2 of 2)

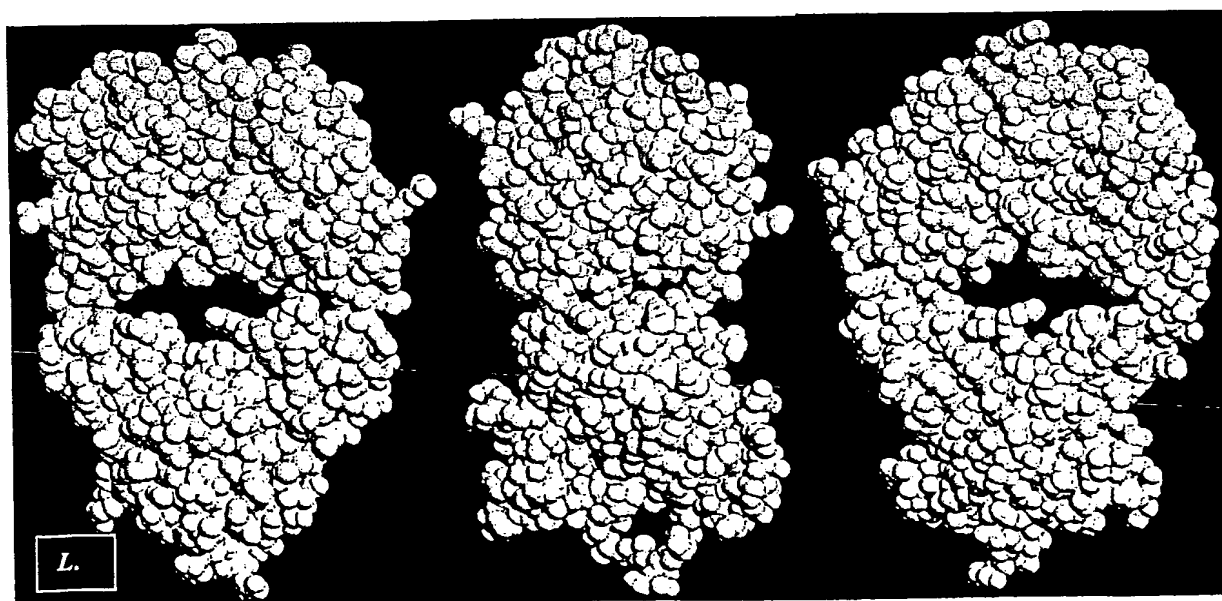
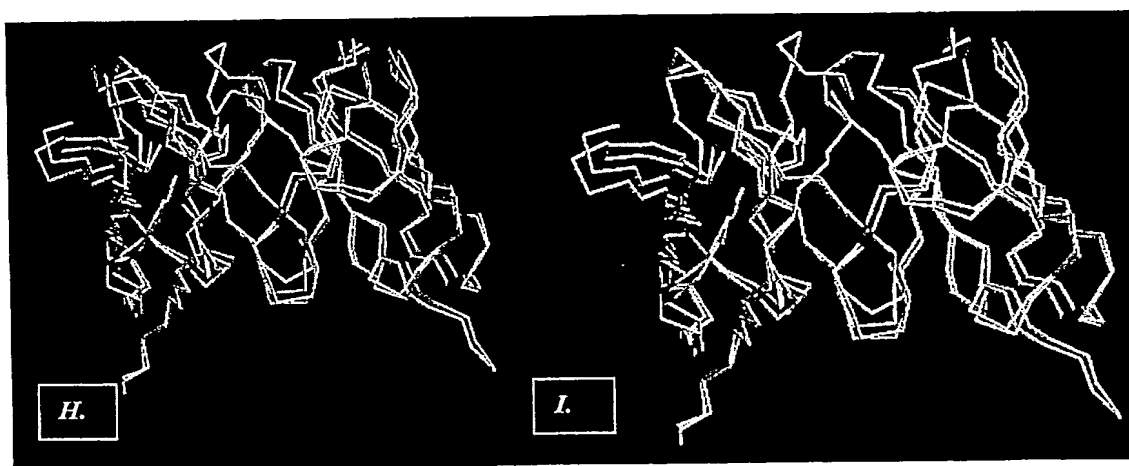
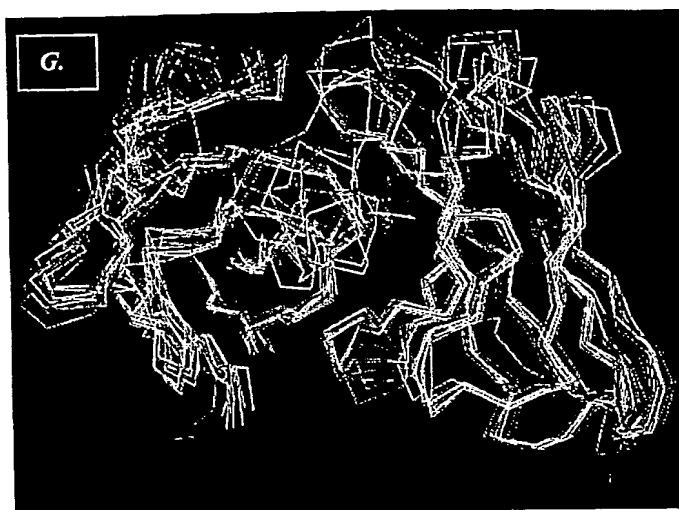


FIG. 5

*A. Fv fragment of heavy chain*

	20	40
MNAC13	EVKLVESGGGLVQPGGSLKLSCAASGFTFSTYTM <del>SWARQTPEKRLEWVAYISKG--</del>	
1AD0	EVQLLESGGGLVQPGGSLRLSCATSGFTFTDYIMNWVRQAPGKGLEWLGFIGNKAN	
Hum MNAC13	EVQLLESGGGLVQPGGSLRLSCAASGFTFSTYTM <del>SWARQAPGKGLEWVAYISKG--</del>	
	60	80
MNAC13	GGSTYYPD <del>TVKGRFTISRDN</del> AKNTLYLQMS <del>SLKSE</del> DALYYCARGAMFGNDFFFPMD	
1AD0	GYTTEYSASVKGRFTISRDKSKSTLYLQMN <del>TLQAEDSAIYYCTRDR----</del> GLRFYFD	
Hum MNAC13	<u>GGSTYYPD</u> <del>TVKGRFTISR</del> DN <del>SKNTLYLQ</del> MNSLRAEDSAVYYCARGAMFGNDFFFPMD	
	60	80
MNAC13	RWGQGT <del>SVTVSSA</del>	
1AD0	YWGQGT <del>LVTVSSA</del>	
Hum MNAC13	<u>RWGQGT</u> <del>LVTVSSA</del>	

*B. Fv fragment of light chain*

	20	40
MNAC13	DIVLTQSPAIMSASLGEEVTLTCSASSSVSYMH <del>WYQQKSGTSPKLLIYTTSNL</del>	
1AD0	QTVLTQSPSSLSVSVGDRV <del>TITCRASSSVTYIH</del> WYQQKPG <del>LAPKSLIYATSNL</del>	
Hum MNAC13	DIVLTQSPSSLSASV <del>GDRV</del> TITC <u>SASSSVSYMH</u> WYQQKPGQAPKLLIYTTSNL	
	60	80
MNAC13	ASGVPSRFSGSGSGTFYSLTIS <del>SVEAEDAADYYCHQWSSYPWT</del> FGGGTKLEIK	
1AD0	ASGVPSRFSGSGSGTDY <del>TFTIS</del> SLQPEDIA <del>TYYCQHWSSKPPT</del> FGQGTKVEVK	
Hum MNAC13	<u>ASGVPSRFSGSGSGTDY</u> TLTIS <del>SLQPED</del> VATYYCHQWSSYPWTFGGGTKVEIK	

**FIG. 6****A. Fv fragment of heavy chain**

	20	40
$\alpha$ D11	QVQLKESGPGLVQPSQTLSTCTVSGFSLTNNNVNWVRQATGRGLEWMGGVWAG-G	
1JPS	EVQLVESGGGLVQPGGSLRLSCAASGFNIKEYMHVVRQAPGKGLEWVGLIDPEQG	
Hum $\alpha$ D11	EVQLVESGGGLVQPGGSLRLSCAAS <u>GFSLTNNNVNWVRQAPGKGLEWVG</u> WAG-G	
	60	80
$\alpha$ D11	ATDYNALKSRLTITRDTSKSQVFLKMHSLSQSEDTATYYCARDGGYSSSTLYAMD	
1JPS	NTIYDPKFQDRATISADNSKNTAYLQMNSLRAEDTAVYYCARDTAA-----YFD	
Hum $\alpha$ D11	<u>ATDYNALKSRFTISR</u> DNSKNTAYLQMNSLRAEDTAVYYCARDGGYSSSTLYAMD	
	60	80
$\alpha$ D11	AWGQGTTVTVSA	
1JPS	YWGQGTTLTVSS	
Hum $\alpha$ D11	<u>AWGQGTTLTVSS</u>	

**B. Fv fragment of light chain**

	20	40
$\alpha$ D11	DIQMTQSPASLSASLGETVTIECRASEDIYNALAWYQQKPGKSPQLLIYNTDTL	
1JPS	DIQMTQSPSSLSASVGDRTITCRASRDIKSYLNWYQQKPGKAPKVLIIYATSL	
Hum $\alpha$ D11	DIQMTQSPSSLSASVGDRTITC <u>RASEDIYNALAWYQQKPGKAPKLLIYNTDTL</u>	
	60	80
$\alpha$ D11	HTGVPSRFSGSGSGTQYSLKINSLSQSEDVASYFCQHYFHYPRTFGGGKLELK	
1JPS	AEGVPSRFSGSGSGTDYTLTISSLPEDFATYYCLQHGESPWTFGQGTKVEIK	
Hum $\alpha$ D11	<u>HTGVPSRFSGSGSGTDYTLTISSLPEDFATYFCQHYFHYPRTFGQGTKVEIK</u>	

FIG. 7 (1 of 4)

A) MNAC13 VL

GAC ATT GTT CTC TCC CAG TCT CCA GCA ATC ATG TCT GCA TCT CTA GGG GAG GAG ATC ACC CTA ACC TGC AGT GCC AGC  
 TTG AGT GTA AGT TAC TGG TAC CAG AAG TCA GGC ACT TCT CCC AAG CTC TCG ATT TAT ACT ACA TCC AAC  
 CTG GCT TCT GGA GTC CCT TCT CGC TTC AGT GGC AGT GGG TCT GGG ACC TTT TAT TCT CTC ACA ATC AGT AGT GTG GAG  
 GCT GAA GAT GCT GCC GAT TAT TAC TGC CAT CAG TGG AGT AGT TAT CCA TGG ACG TTC GGT GGA GGC ACC AAG CTG GAA  
 ATC AAA

B) MNAC13 VH

GAG GTG AAG CTG GTG AAG TCT GGG GGA GGT TTA GTG CAG CCT GGA GGG TCC CTG AAA CTC TCC TGT GCA GCC TCT GGA  
 TTC ACT TTC AGT ACC TAT ACC ATG TCT TGG GCT CGC CAG ACA CCA GAG AAG AGG CTG GAG TGG GTC GCA TAC ATT AGT  
 AAA GGT GGT AGT ACC TAC TAT CCA GAC ACT GTA AAG GGC CGA TTC ACC ATC TCC AGG GAC AAT GCG AAG AAC ACC  
 CTG TAC CTG CAA ATG AGC AGT CTG AAG TCT GAG GAC ACG GCC TTG TAT TAC TGT GCA AGA GGG GCT ATG TAT GGT AAC  
 GAT TTT TTC TAT CCT ATG GAC TAC TGG GGT CAA GGA ACC TCA GTC ACC GTC TCC TCA

FIG. 7 (2 of 4)

C) MNAC13 GRAFTED VL

5' D I V L T Q S P S S L S A S V G D R V T I T C S  
 ACA GGC GTG CAC TCC GAC ATT GTT CTC ACC CAG TCT CCA TCC AGC CTG TCT GCG TCT GTC GGG GAC CGG GTC ACC ATT  
 CAG CCC CTG GCC CAG TGG TAA TGG ACG TCG 3'

3'

5' A S S S V S Y M H W Y Q Q K P G K A P K L L I Y T T S N L  
 TGG TAC CAG CAG AAG CCA GGC AAG GCT CCC AAG CTC CTG ATT TAT ACT ACA TCC AAC CTG  
 CCG TCG AGA TCA CAC TCA ATG TAC GTG ACC ATG GTC TTC GGT CCG  
 OLIGO L2AS 3'

5' A S G V P S R F S G S G S G T D Y T L T I S S L Q P E D F  
 GCT TCT GGA GTC CCT TCT ACC CTC ACA ATC AGT AGT CTG CAG CCT GAA GAT TTC  
 CGA AGA CCT CAG GGA AGA GCG AAG TCG CCG TCA CCC AGA CCC TGG CTA ATA TGG GAG TGT TAG TCA TCA GAC  
 OLIGO L4AS 3'

5' A T Y Y C H Q W S S Y P W T F G G G T K V E I K  
 GCC ACC TAT TAC TGC CAT CAG TGG AGT AGT TAT CCA TGG ACG  
 ACC TCA TCA ATA GGT ACC TGC AAG CCA CCT CCG TGG TTC CAC CTT TAT TTT GCA CTC ATC TTA TCT  
 OLIGO L6AS 3'

AGA TTG AAT  
 3' 5'

FIG. 7 (3 of 4)

D) MNAC13 GRAFTED VH

5' E V Q L L E S G G L V Q P G G S L R L S C A A 3'  
 ACA GGC GCG CAC TCC GAG GTG CAG CTG GAG TCT GGG GGA GGT TTA GTG CAG CCT GGA GGG TCC CTG CGC CTC TCC TGT  
 CCC AGG GAC GCG GAG AGG ACA CGT CGG 5'

3'

5' S G F T F S T Y T M S W A R Q A P G K G L E W V A Y I S K 3'  
 TGG GCT CGC CAG GCC CCA GGG AAG GGG CTG GAG TGG GTC GCA TAC ATT AGT AAA  
 AGA CCT AAG TGA AAG TCA TGG ATA TGG TAC TCG ACC CGA GCG GTC CGG GGT CCC  
 OLIGO H2AS 5'

OLIGO H2AS

13/23

5' G G G S T Y Y P D T V K G R F T I S R D N S K N T L Y L Q 3'  
 GGT GGT AGT ACC TAC TAT CCA GAC  
 CCA TCA TGG ATG ATA GGT CTG TGA CAT TTC CCG GCT AAG TGG TAG AGG TCC CTG TTG AGC TTC TTG GAC ATG GAC GTT  
 AAG AAC ACC CTG TAC CTG CAA  
 OLIGO H4AS 5'

OLIGO H4AS

5' M N S L R A E D S A V Y Y C A R G A M F G N D F F P M D 3'  
 ATG AAC AGT CTG CGG GCT GAG GAC AGC GCC GTC TAT TAC TGT GCA AGA GGG GCT ATG TTT  
 ACA CGT TCT CCC CGA TAC AAA CCA TTG CTA AAA AAG AAA GGA TAC CTG  
 OLIGO H6AS 5'

OLIGO H6AS

R W G Q G T L V T V S

3' GCG ACC CCA GTT CCT TGG GAC CAG TGG CAG AGG 5'

FIG. 7 (4 of 4)

E) OLIGOS TO SYNTHESIZE MNAC13 VL

OLIGO L1S  
ACA GGC GTG CAC TCC GAC ATT GTT CTC ACC CAG TCT CCA TCC AGC CTG TCT GCG TCT GTC GGG GAC CGG GTC ACC ATT

OLIGO L2AS  
GCC TGG CTT CTG CTG GTA CCA GTG CAT GTA ACT CAC ACT AGA GCT GGC GCT GCA GGT AAT GGT GAC CCG GTC CCC GAC

OLIGO L3S  
TGG TAC CAG CAG AAG CCA GGC AAG GCT CCC AAG CTC CTG ATT TAT ACT ACA TCC AAC CTG GCT TCT GGA GTC CCT TCT

OLIGO L4AS  
CAG ACT ACT GAT TGT GAG GGT ATA ATC GGT CCC AGA CCC ACT GCC GCT GAA GCG AGA AGG GAC TCC AGA AGC CAG

OLIGO L5S  
ACC CTC ACA ATC AGT AGT CTG CAG CCT GAA GAT TTC GCC ACC TAT TAC TGC CAT CAG TGG AGT AGT TAT CCA TGG ACG

OLIGO L6AS  
TAA GTT AGA TCT ATT CTA CTC ACG TTT TAT TTC CAC CTT GGT GCC TCC ACC GAA CGT CCA TGG ATA ACT ACT CCA

F) OLIGOS TO SYNTHESIZE MNAC13 VH

OLIGO H1S  
ACA GGC GCG CAC TCC GAG GTG CAG CTG CTG GAG TCT GGG GGA GGT TTA GTG CAG CCT GGA GGG TCC CTG CGC CTC TCC TGT

OLIGO H2AS  
CCC TGG GGC CTG GCG AGC CCA GCT CAT GGT ATA GGT ACT GAA AGT GAA TCC AGA GGC TGC ACA GGA GAG GCG CAG GGA CCC

OLIGO H3S  
TGG GCT CGC CAG GCC CCA GGG AAG GGG CTG GAG TGG GTC GCA TAC ATT AGT AAA GGT GGT AGT ACC TAC TAT CCA GAC

OLIGO H4AS  
TTG CAG GTA CAG GGT GTT CTT CGA GTT GTC CCT GGA GAT GGT GAA TCG GCC CTT TAC AGT GTC TGG ATA GTA GGT ACT ACC

OLIGO H5S  
AAG AAC ACC CTG TAC CTG CAA ATG AAC AGT CTG CGG GCT GAG GAC AGC GCC GTC TAT TAC TGT GCA AGA GGG GCT ATG TTT

OLIGO H6AS  
GGA GAC GGT GAC CAG GGT TCC TTG ACC CCA GCG GTC CAT AGG AAA GAA AAA ATC GTT ACC AAA CAT AGC CCC TCT TGC ACA

FIG. 8 (1 of 4)

A) cd11 VL

GAC ATC CAG ATG ACC CAG TCT CCA GCT TCC CTG TCT GCA TCT CTG GGA GAA ACT GTC ACC ATC GAA TGT CGA GCA AGT GAG GAC ATT  
 TAT AAT GCT TTA GCA TGG TAT CAG CAG AAG CCA GGG AAA TCT CCT CAG CTC CTG ATC TAT AAT ACA GAT ACC TTG CAT ACT GGG GTC  
 CCA TCA CGA TTC AGT GGC AGT GGA TCT GGT ACA CAA TAT TCT CTC AAG ATA AAC AGC CTG CAA TCT GAA GAT GTC GCA AGT TAT TTC  
 TGT CAG CAC TAT TTC CAT TAT CCT CGG ACG TTC GGT GGA GGG ACC AAG CTG GAG ATC AAA

B) cd11 VH

CAG GTG CAG CTG GTG GAA TCA GGA CCT GGT CTG GTG CAG CCC TCA CAG ACC CTG TCC CTC ACC TGC ACT GTC TCT GGG TTC TCA CTA  
 ACC AAC AAC AAT GTG AAC TGG GTT CGA CAG GCT ACA GGA AGA GGT CTG GAG TGG AGT GGA GGA GTC TGG GCT GGT GGA GCC ACA GAT  
 TAC AAT TCA GCT CTC AAA TCC CGA CTG ACC ATC ACT AGG GAC ACC TCC AAG AGC CAA GTT TTC TTA AAA ATG CAC ATG CTG CAA  
 TCT GAA GAC ACA GCC ACT TAC TAC TGT GCC AGA GAC GGG GGC TAT AGC AGC TCT ACC CTC TAT GCT ATG GAT GCC TGG GGT CAA GGA  
 ACT TCG GTC ACC GTC TCC TCA

FIG. 8 (2 of 4)

C) cd11 GRAFTED VL

5' D I Q M T Q S P S S L S A S V G D R V T I T C R 3'  
 ACA GGC GTG CAC TCC GAC ATC CAG ATG ACC CAG TCT CCA TCT TCC CTG TCT GCA TCT GTG GGA GAC CGC GTC ACC ATC  
 CAC CCT CTG GCG CAG TGG TAG TGT ACA GCT 5'

3'

5' A S E D I Y N A L A W Y Q Q K P G K A P K L L I Y N T D T 3'  
 GCA TGG TAT CAG CAG AAG CCA GGG AAA GCT CCT AAG CTC CTG ATC TAT AAT ACA GAT ACC TGG  
 CGT TCA CTC CTG TAA ATA TTA CGA AAT CGT ACC ATA GTC GTC TTC GGT  
 OLIGO L2AS 5'

3'

5' L H T G V P S R F S G S G S G T D Y T L T I S S L Q P E D 3'  
 TTG CAT ACA GGG GTC CCA  
 AAC GTA TGT CCC CAG GGT AGT GCT AAG TCA CCG TCA CCT AGA CCA TGT CTG ATA TGA GAG TGC TAT TCG TCG GAC  
 ACT CTC ACG ATA AGC AGC CTG CAA CCT GAA GAT  
 OLIGO L4AS 5'

3'

5' F A T Y F C Q H Y F H Y P R T F G Q G T K V E I K 3'  
 TTC GCA ACT TAT TTC TGT CAG CAC TAT TTC CAT TAT CCT CGG  
 GTG ATA AAG GTA ATA GGA GCC TGC AAG CCA GTT CCC TGG TTC CAC CTC TAG TTT GCA CTC ATC TTA  
 OLIGO L6AS 5'

3'

AGA TCT AAC  
 3' 5'

FIG. 8 (3 of 4)

D) cd11 GRAFTED VH

5' E V Q L V E S G G G L V Q P G G S L R L S C A A 3'  
 ACA GGC GCG CAC TCC GAG GTG CAG CTG GTG GAA TCA GGA GGT GGT CTG GTG CAG CCC GGA GGG TCC CTG CGC CTC AGC TGC  
 CCC AGG GAC GCG GAG TCG ACG CGA CGG 5'  
 OLIGO H1S  
 3' S G F S L T N N N V N W V R Q A P G G L E W V G G V W A 3'  
 AAC TGG GTT CGA CAG GCT CCA GGA AAA GGT CTG GAG TGG GTG GGA GGC TGC TGG GCT  
 OLIGO H3S  
 AGA CCG AAG AGT GAT TGG TTG TTA CAC TTG ACC CAA GCT GTC CGA GGT CCT 5'  
 OLIGO H2AS  
 3' G G A T D Y N S A L K S R F T I S R D N S K N T A Y L Q M 3'  
 GGT GGA GCC ACA GAT TAC AAT TCA  
 CCT CGG TGT CTA ATG TTA AGT CGA GAG TTT AGG GCT AAG TGG TAG TCA GCG CTG TTG AGG TTC TTG TGT CGA ATG AAT GTT TAC  
 OLIGO H4AS  
 3' N S L R A E D T A V Y Y C A R D G G Y S S S T L Y A M D A 3'  
 OLIGO 5S  
 AAC AGT CTG CGC GCT GAA GAC ACA GCC GTT TAC TAC TGT GCC AGA GAC GGG GGC TAT AGC  
 CGG TCT CTG CCC ATA TCG TCG AGA TGG GAG ATA CGA TAC CTA CGG 5'  
 OLIGO H6AS  
 3' W G Q G T L V T V S S  
 ACC CCA GTT CCT TGA GAC CAG TGG CAG AGG AGT 5'

FIG. 8 (4 of 4)

E) OLIGOS TO SYNTHESIZE cd11 VL

OLIGO L1S  
ACA GGC GTG CAC TCC GAC ATC CAG ATG ACC CAG TCT CCA TCT TCC CTG TCT GCA TCT GTG GGA GAC CGC GTC ACC ATC

OLIGO L2AS  
TGG CTT CTG CTG ATA CCA TGC TAA AGC ATT ATA AAT GTC CTC ACT TGC TCG ACA TGT GAT GGT GAC GCG GTC TCC CAC

OLIGO L3S  
GCA TGG TAT CAG CAG AAG CCA GGG AAA GCT CCT AAG CTC CTG ATC TAT AAT ACA GAT ACC TTG CAT ACA GGG GTC CCA

OLIGO L4AS  
CAG GCT GCT TAT CGT GAG AGT ATA GTC TGT ACC AGA TCC ACT GCC ACT GAA TCG TGA TGG GAC CCC TGT ATG CAA GGT

OLIGO L5S  
ACT CTC ACG ATA AGC AGC CTG CAA CCT GAA GAT TTC GCA ACT TAT TTC TGT CAG CAC TAT TTC CAT TAT CCT CGG

OLIGO L6AS  
CAA TCT AGA ATT CTA CTC ACG TTT GAT CTC CAC CTT GGT CCC TTG ACC GAA CGT CCG AGG ATA ATG GAA ATA GTG

F) OLIGOS TO SYNTHESIZE cd11 VH

OLIGO H1S  
ACA GGC GCG CAC TCC GAG GTG CAG CTG GTG GAA TCA GGA GGT GGT CTG GTG CAG CCC GGA GGG TCC CTG CGC CTC AGC TGC

OLIGO H2AS  
TCC TGG AGC CTG TCG AAC CCA GTT CAC ATT GTT GTT TAG TGA GAA GCC AGA GGC AGC GCA GCT GAG GCG CAG GGA CCC

OLIGO H3S  
AAC TGG GTT CGA CAG GCT CCA GGA AAA GGT CTG GAG TGG GTG GGA GGA GTC TGG GCT GGT GGA GCC ACA GAT TAC AAT TCA

OLIGO H4AS  
CAT TTG TAA GTA AGC TGT GTT CTT GGA GTT GTC GCG ACT GAT GGT GAA TCG GGA TTT GAG AGC TGA ATT GTA ATC TGT GGC TCC

OLIGO H5S  
AAG AAC ACA GCT TAC TTA CAA ATG AAC AGT CTG CGC GCT GAA GAC ACA GCC GTT TAC TGT GCC AGA GAC GGG GGC TAT AGC

OLIGO H6AS  
TGA GGA GAC GGT GAC CAG AGT TCC TTG ACC CCA GGC ATC CAT AGC ATA GAG GGT AGA GCT GCT ATA GCC CCC GTC TCT GGC

FIG. 9 (1 of 3)

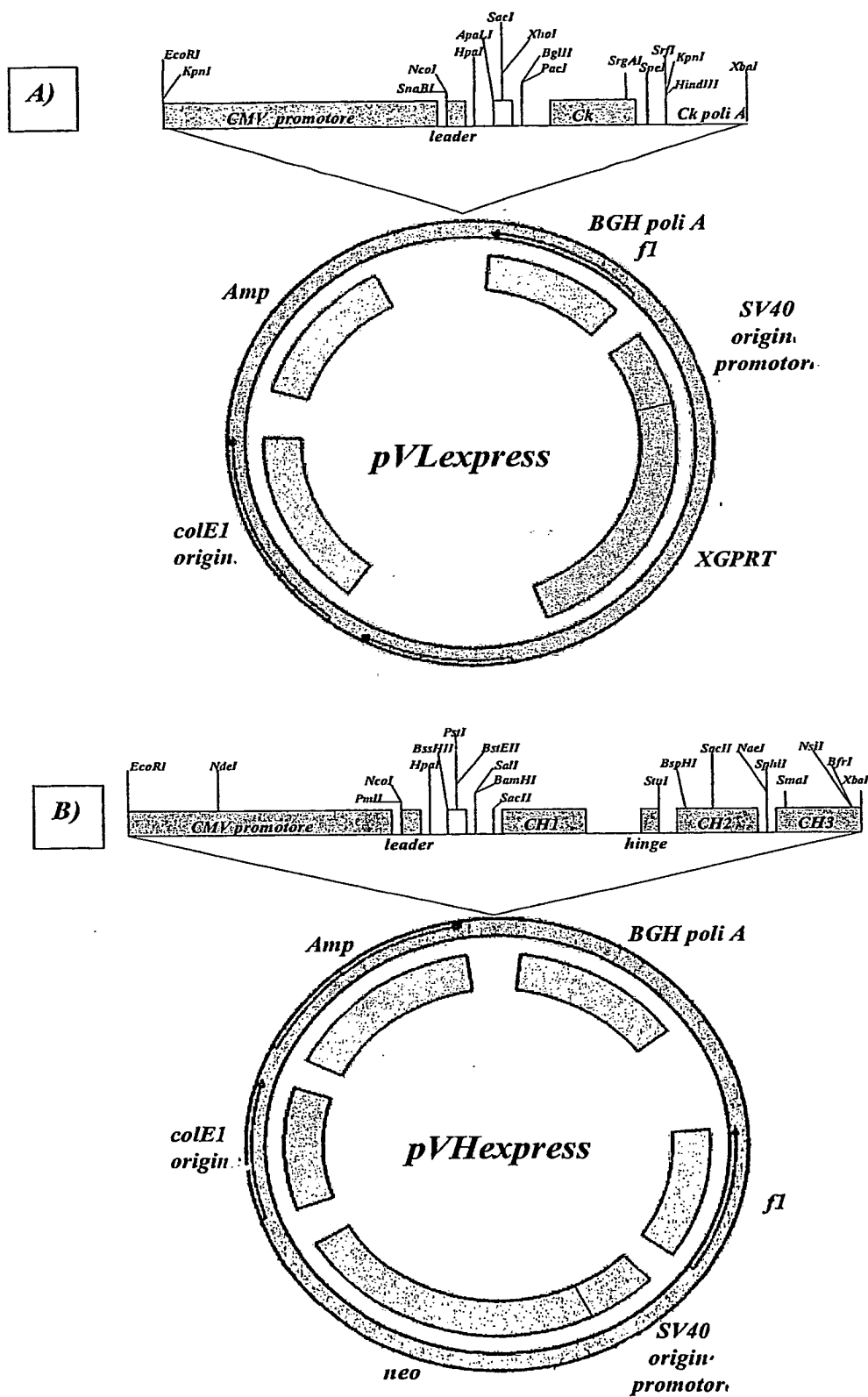


FIG. 9 (2 of 3)

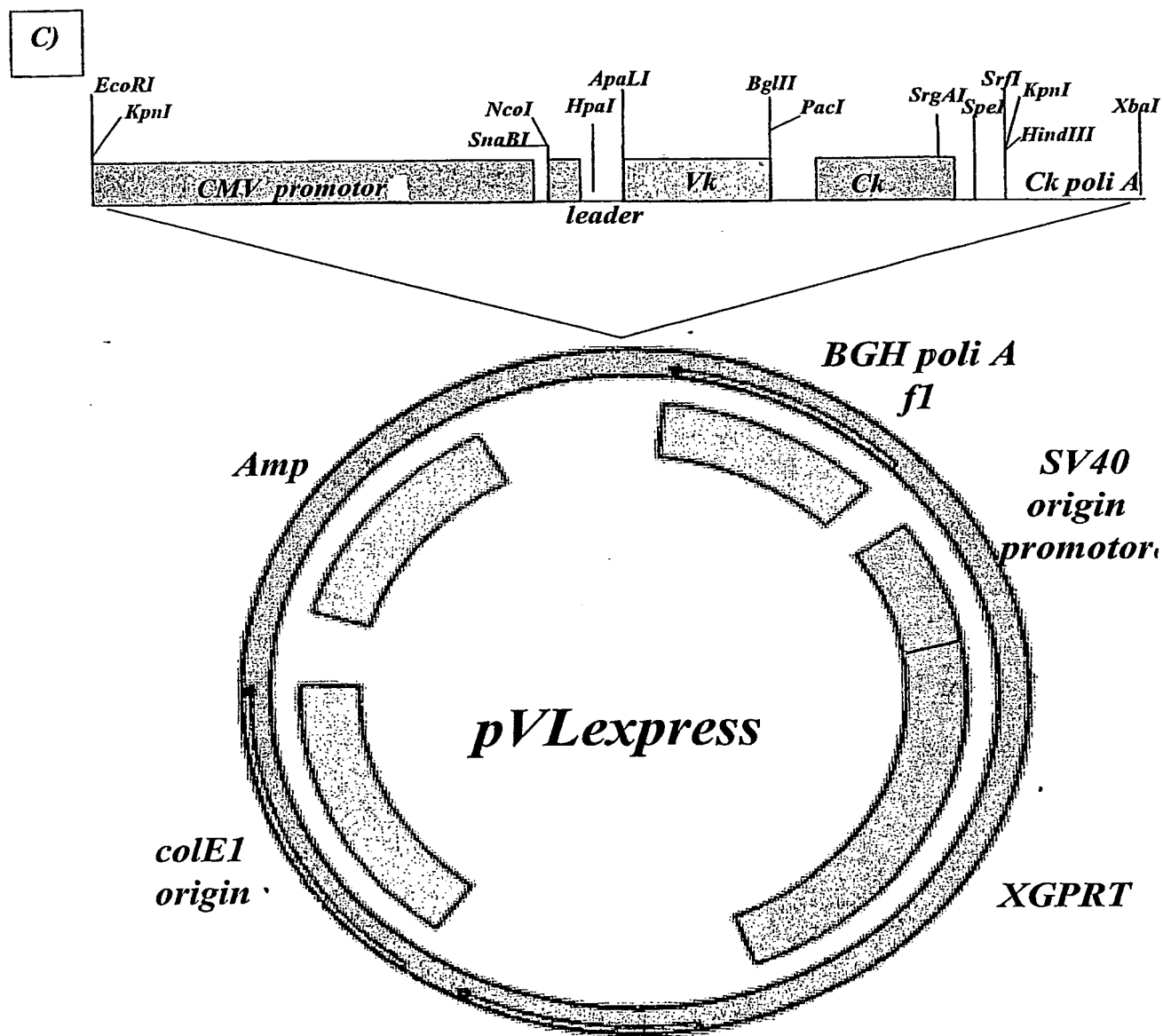
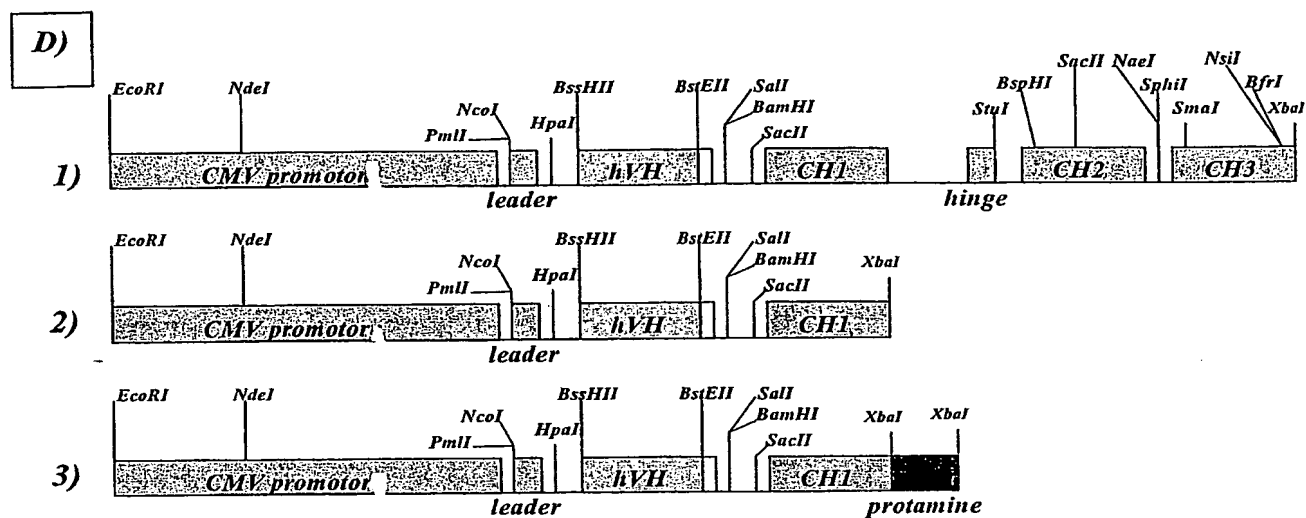


FIG. 9 (3 of 3)



1) o 2) o 3)

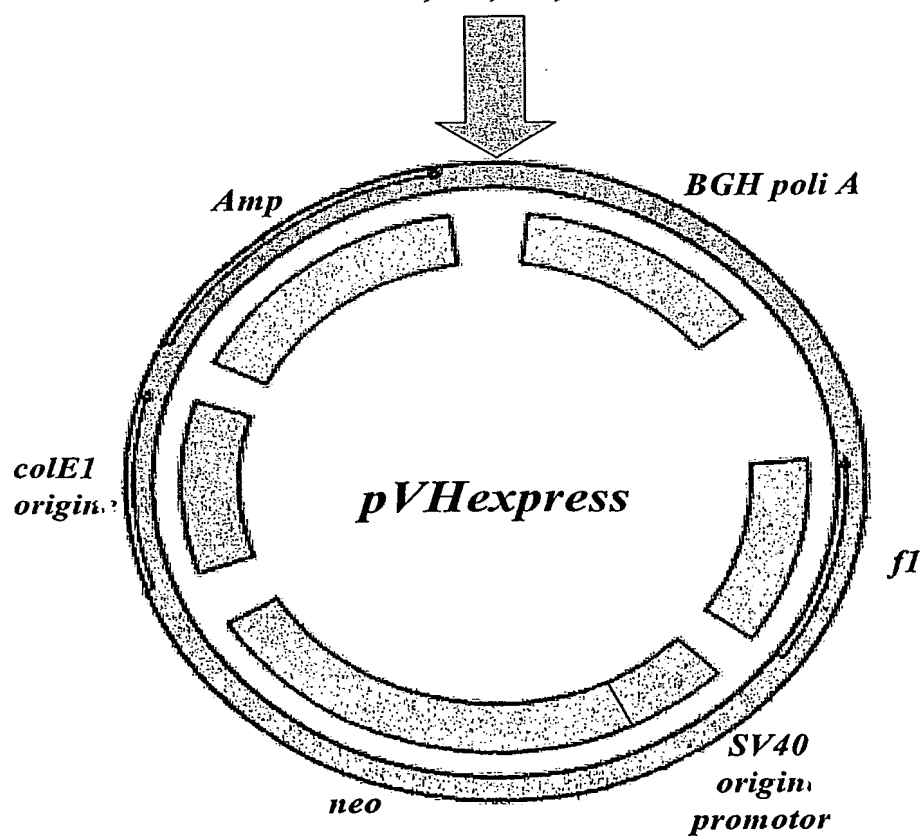
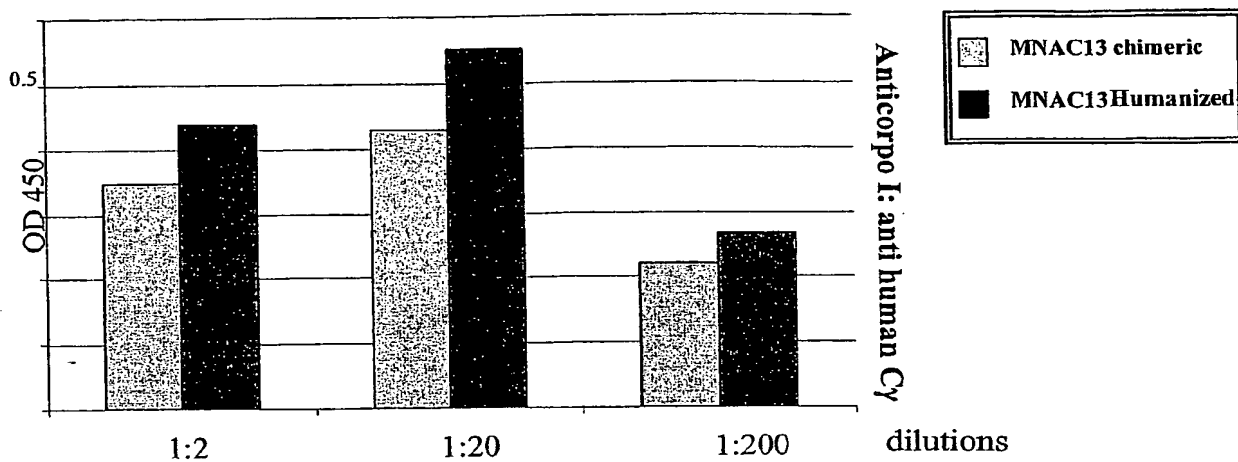
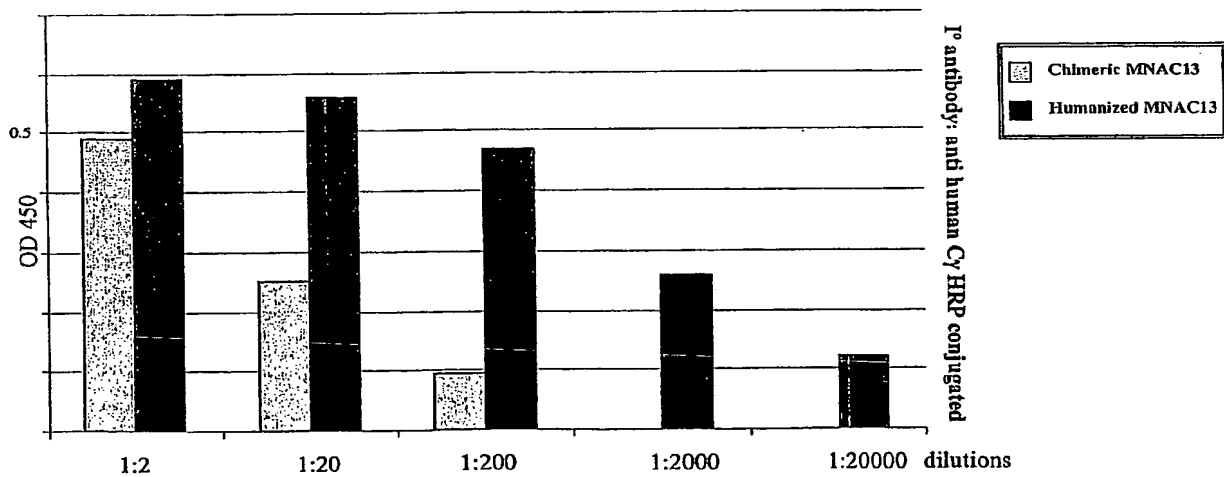
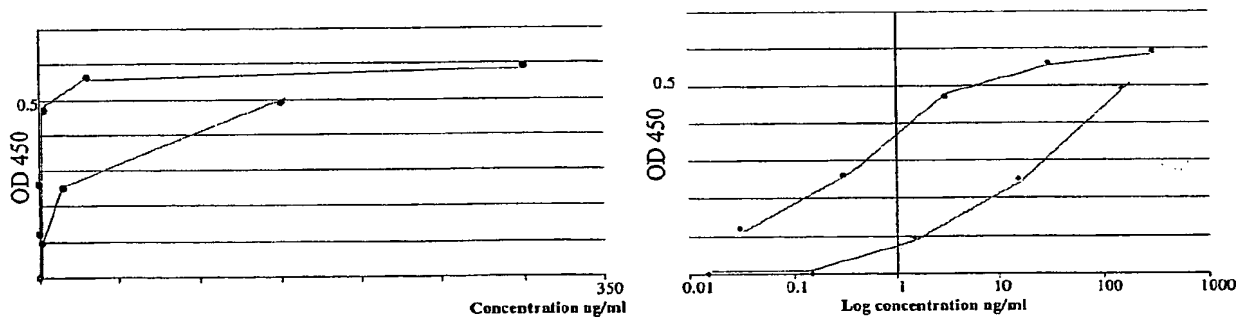


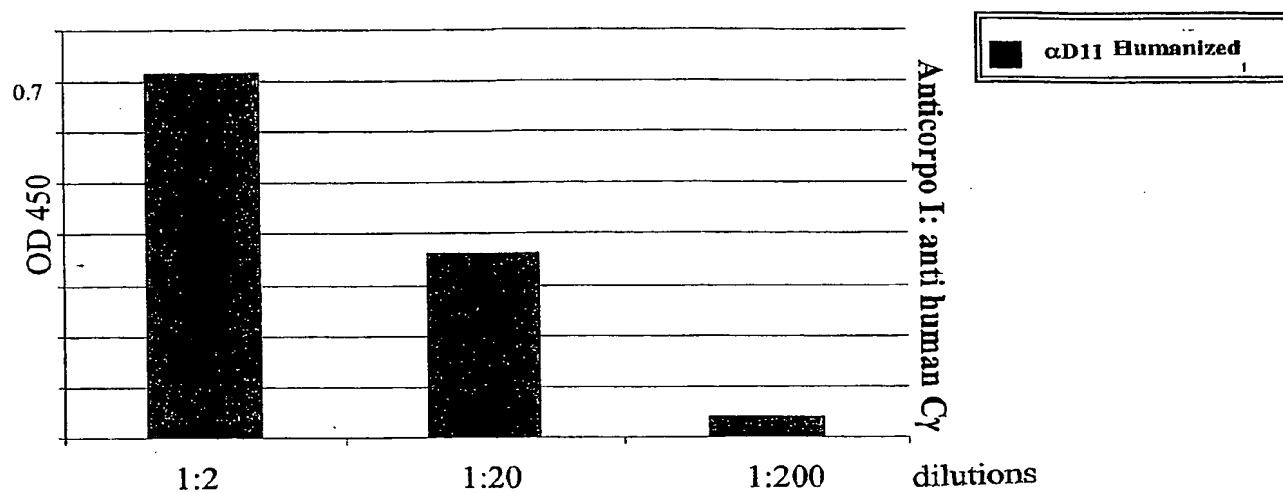
FIG. 10

a) supernatants of transfected COS cells



b) G protein sepharose purified supernatants of transfected COS cells



**FIG. 11****BINDING ACTIVITY TOWARDS NGF**

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